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Amendments to the Claims

Listing of Claims:

Claims 1-13 (cancelled)

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Claim 14 (previously presented): An apparatus for adjusting a phase difference between two input signals, the apparatus comprising:

a first buffer for buffering a first input signal and outputting a first output signal;

a first DAC for outputting a first control voltage corresponding to a first digital value representative of a phase delay;

- a first variable capacitor coupled to the first DAC and the first buffer, the capacitance value of the first variable capacitor corresponding to the first control voltage;
- a second buffer for buffering a second input signal and outputting a second output signal;
 - a second DAC for outputting a second control voltage corresponding to a second digital value representative of a phase delay; and
 - a second variable capacitor coupled to the second DAC and the second buffer, the capacitance value of the second variable capacitor corresponding to the second control voltage;
 - wherein by controlling at least one of the first and the second digital values, the phase difference between the first input signal and the second input signal are adjusted.

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Claim 15 (previously presented): The apparatus of claim 14 being implemented in a receiver.

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- Claim 16 (previously presented): The apparatus of claim 14 being implemented in a transmitter.
- Claim 17 (previously presented): The apparatus of claim 14 being implemented in a transceiver.
 - Claim 18 (previously presented): The apparatus of claim 14, wherein the first input signal and the second input signal are differential signals.
- Claim 19 (previously presented): The apparatus of claim 14, wherein the first input signal and the second input signal are an in-phase signal and a quadrature-phase signal respectively.
- Claim 20 (previously presented): The apparatus of claim 14, wherein the first input signal and the second input signals are clock signals.
 - Claim 21 (previously presented): The apparatus of claim 14, wherein the first input signal and the second input signal are RF signals.
- Claim 22 (previously presented): The apparatus of claim 14, wherein the first variable capacitor and the second variable capacitor are voltage-controlled capacitors.
- Claim 23 (previously presented): The apparatus of claim 22, wherein the voltage-controlled capacitors are MOS-based voltage-controlled capacitors.
 - Claim 24 (previously presented): The apparatus of claim 22, wherein the

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voltage-controlled capacitors are P+/N well junction voltage-controlled capacitors.

Claim 25 (previously presented): A method for adjusting a phase difference between
two input signals, the method comprising:
buffering a first input signal and outputting a first output signal;
buffering a second input signal and outputting a second output signal;
providing at least one of a first digital value and a second digital value
representative of a first phase delay and a second phase delay respectively;
and
adjusting a capacitance value of a first variable capacitor with a first control
voltage generated from the first digital value or adjusting a capacitance
value of a second variable capacitor with a second control voltage
generated from the second digital value, to adjust the phase difference
between the input signal and the output signal.

- Claim 26 (previously presented): The method of claim 25, wherein the first input signal and the second input signal are differential signals.
- Claim 27 (previously presented): The method of claim 25, wherein the first input signal and the second input signal are an in-phase signal and a quadrature-phase signal respectively.
- Claim 28 (previously presented): The method of claim 25, wherein the first input signal and the second input signals are clock signals.
 - Claim 29 (previously presented): The method of claim 25, wherein the first input

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signal and the second input signal are RF signals.

Claim 30 (previously presented): The method of claim 25, wherein the first variable capacitor and the second variable capacitor are voltage-controlled capacitors.

Claim 31 (previously presented): The method of claim 30, wherein the

voltage-controlled capacitors are MOS-based voltage-controlled capacitors.

Claim 32 (previously presented): The method of claim 30, wherein the

voltage-controlled capacitors are P+/N well junction voltage-controlled

capacitors.

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